

COM-7/FPD5-Seams Congestion Issues/Phase Shifters in FDF Development, Scheduling, RTO Congestion Mitigation

Issue	FDF DETERMINATION-	
	Open Loop (No incremental flows between RTOs unless Scheduled)	Closed Loop
Schedule on Contract Path (CP) between RTOs	<ul style="list-style-type: none"> Transactions within RTO West not require FTRs on RTO interties Exchange between RTOs at intertie points Within RTO West, FTRs required between intertie point sink/source 	<ul style="list-style-type: none"> Transactions within RTO West may require FTRs on RTO interties Exchange between RTOs at intertie points Within RTO West, FTRs required between source/sink in RTO West and interties needed for transactions dependent on scheduling and forgiveness thresholds. FDFs determine intertie needs when scheduling from Zone in RTO West to a Zone in another RTO.
Schedule Flow Based (FB) between RTOs	<i>Not Applicable</i>	<ul style="list-style-type: none"> Transactions within RTO West may require FTRs on RTO interties Exchange between RTOs at intertie points Within RTO West, FTRs required between source/sink in RTO West and interties needed for transactions dependent on scheduling and forgiveness thresholds. FDFs determine intertie needs when scheduling from Zone in RTO West to a Zone in another RTO.
Phase Shifter Operation at Seams (CP)	Much the same as today with perhaps some minor changes to WSCC UFMP. Used to control Unscheduled Flow between RTOs.	Set to maximize useable TTC during scheduling process(either by RTO action or market purchase of PS operation); or Use to relieve congestion when it occurs.
Phase Shifter Operation at Seams (FB)	<i>Not Applicable</i>	Set to maximize useable TTC during scheduling process(either by RTO action or market purchase of PS operation); or Use to relieve congestion when it occurs or Owner uses to maximize its own benefits.
Phase Shifter Operation Internal to RTO West (CP at seams)	Set to maximize useable TTC during scheduling process; or Use to relieve congestion when it occurs; or Owner uses to maximize its own benefits.	Set to maximize useable TTC during scheduling process(either by RTO action or market purchase of PS operation); or Use to relieve congestion when it occurs; or Owner uses to maximize its own benefits.
Phase Shifter Operation Internal to RTO West (FB at Seams)	<i>Not Applicable</i>	Set to maximize useable TTC during scheduling process(either by RTO action or market purchase of PS operation); or Use to relieve congestion when it occurs; or Owner uses to maximize its own benefits.